

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2018/2019

DCS5018 – COMPUTER SYSTEMS & APPLICATIONS (For Diploma students only)

17 OCTOBER 2018
9:00 a.m. – 11:00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 5 pages excluding cover page.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A : 20 Multiple Choice Questions (20 marks)

Instruction: Shade your answers on the **OMR sheet**.

(i) <https://www.youtube.com/watch?v=CE-J1vmnRtY>

“Vendor hosts the software online and user access and use the software over the internet without having to install it on user’s computer.”

- A. Off-the-shelf software
- B. Software as a Service
- C. System software
- D. Specialized software

6. Which of the following is/are the guidelines in producing a good presentation?

- I. Use images
- II. Use appropriate colours
- III. Use bullet for key points
- IV. Keep animation and background audio to the maximum

- A. I & II
- B. II & III
- C. I, II, III
- D. All of the above

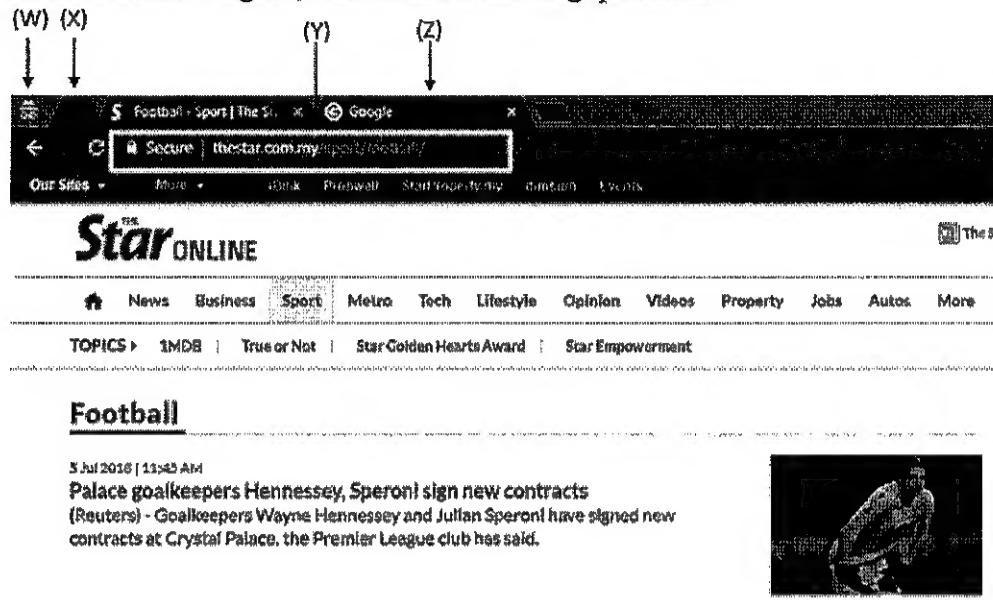
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Section B: 4 Structured Questions (80 marks)*Instruction: Write your answers in the Answer Booklet.***Question 1 (Total: 20 Marks)**(a) Give **FIVE (5)** examples of input devices and output devices. (5 marks)

(b) Based on below figure, answer the following questions:



- Explain what is a web browser. (2 marks)
- What can a graphical browser display? (4 marks)
- Identify (W), (X), (Y), (Z). (4 marks)

(c) Explain what is an open source software and list down **THREE (3)** examples of open source software. (5 marks)**Question 2 (Total: 20 Marks)**

(a) System software is one of the essential component in order to run a computer. Based on this statement, answer the following questions:

- State **TWO (2)** basic types of system software (2 marks)
- Based on question (i), explain each type of system software. (2 marks)
- Give **TWO (2)** example for each system software. (4 marks)

(b) The boot process is a process of starting a turned off computer. List down the steps in boot process and briefly explain each step. (8 marks)

(c) There are many different types of hard drive. State **FOUR (4)** characteristics of Mechanical Hard Drive (4 marks)**Continued...**

Question 3 (Total: 20 Marks)

(a) Describe any **THREE (3)** type of Network Architecture which defined by distance? (6 marks)

(b) When you speak into a cell phone, a series of steps occur. Describe **THREE (3)** steps of this process. (6 marks)

(c) Najwa is planning to create a strong password for her online banking login. Give **FOUR (4)** comments on the password given below. (8 marks)

22Pen@22me

Question 4 (Total: 20 Marks)

(a) List the **SIX (6)** steps in Software Development Life Cycle (SDLC). (6 marks)

(b) What are the tools required to build an Android device application? (6 marks)

(c) Describe any **TWO (2)** of the database main components. (4 marks)

(d) List out **FOUR (4)** criteria of a good primary key in a database. (4 marks)

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